

[002] This application is a national stage completion of PCT/EP2003/008274 filed July 26, 2003 which claims priority from German Application Serial No. 102 35 535.5 filed August 3, 2002.

[003] FIELD OF THE INVENTION

[004] The present invention concerns an arrangement of the intermediate gear for the reverse gear in connection with a transmission with coaxial drive shaft and output shaft, especially a discrete ratio transmission, and with at least one additional intermediate shaft for a power take-off in accordance with the preamble of patent claim 1.

[005] BACKGROUND OF THE INVENTION

[016] ~~This object is accomplished through the features of patent claim 1. A further configuration emerges from the dependent claim.~~

[017] SUMMARY OF THE INVENTION

[021] BRIEF DESCRIPTION OF THE DRAWINGS

[022] The invention will now be explained below described, by way of example on the basis of, with reference to the appended drawing, accompanying drawings in which;

[023] Fig. 1 schematically represents a sectional view of a preferred embodiment of an arrangement in accordance with the present invention.

[024] DETAILED DESCRIPTION OF THE INVENTION

[025] The drawing Fig. 1 illustrates a sectional view of the arrangement of the intermediate gear for the reverse gear in a basic transmission with coaxial drive and output shafts and with at least one additional intermediate gear for a power take-off in accordance with the invention. It shows a main shaft 2 driven by an intermediate gear for a reverse gear 1 as well as a countershaft 3, which drives the intermediate gear 1. An intermediate gear 4 for the power take-off engages

with the reverse intermediate gear 1. The drive shaft is not represented since it cannot be represented in the framework of this sectional view in the direction of travel due to its coaxial arrangement in relation to the main shaft 2, which serves as an output shaft of the basic transmission.

1-2. (CANCELED)

3. (NEW) An arrangement of an intermediate gear for a reverse gear (1) in connection with a transmission with a drive shaft and an output shaft (2) coaxial in relation to the intermediate gear for a reverse gear (1) and with at least one intermediate shaft (4) arranged parallel to the drive and output shafts (2) for a power take-off, the intermediate shaft (4) is driven by the intermediate gear for the reverse gear, and the intermediate gear for the reverse gear (1) is driven by a driving shaft (3), which also drives the output shaft (2), the intermediate gear for the reverse gear (1) is arranged above an imaginary plane (A) extending through axes of the driving shaft (3) and the output shaft (2), the driving shaft (3) is located to the right of the output shaft (2) in a direction of travel with an imaginary horizontal orientation of the plane (A).

4. (NEW) The arrangement of the intermediate gear for the reverse gear (1) according to claim 3, wherein the driving shaft (3) driving the intermediate gear for the reverse gear (1) is a countershaft.